Your search matched **1** of **939702** documents.

A maximum of **1** results are displayed, **15** to a page, sorted by **Relevance** in **descending** order.
You may refine your search by editing the current search expression or entering a new one the text box.
Then click **Search Again.**

(oil<phrase>well) and train* and neur* and optimiz*

Search Again

Results:
Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD**

1 **A neural network approach to predict existing and in-fill oil well performance**
Linyu Yang; Zhong He; Yen, J.; Ching Wu;
Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Conference on , Volume: 4 , 2000
Page(s): 408 -413 vol.4

[Abstract] [PDF Full-Text (308 KB)] **IEEE CNF**

A neural network approach to predict existing and in-fill oil well performance

Linyu Yang Zhong He Yen, J. Ching Wu
Dept. of Comput. Sci., Texas A&M Univ., College Station, TX;

This paper appears in: **Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Conference on**
07/24/2000 -07/27/2000, 2000
Location: Como , Italy
On page(s): 408-413 vol.4
Volume: 4, 2000
References Cited: 10
IEEE Catalog Number: 00CH37134
Number of Pages: 6
vol.(xxxvii+371+xxxvi+313+679+630+669+659)
INSPEC Accession Number: 6722268

Abstract:
We put forward a neural network approach to predict existing and in-fill oil well performance. Multiple wells history production data were used to train the neural network, and the established neural network can be used to predict future performance of oil wells. No reservoir data is currently involved in the establishment of neural network, therefore it can predict well production performance in absence of reservoir data. Since both the static and dynamic data are used in the training, we combine the spatial and time series prediction together in this approach. Primary production of a 9-well area in North Robertson Unit located in west Texas was tested in this paper. The results demonstrate that our approach is powerful in rapid projection of existing wells future performance, as well as the performance prediction of in-fill drilling wells. By incorporating the appropriate optimization technique, it can be further extended for use in location optimization of in-fill drilling wells

Index Terms:
forecasting theory learning (artificial intelligence) natural resources neural nets oil technology optimisation time series North Robertson Unit dynamic data in-fill drilling wells learning neural network oil wells optimization performance forecasting static data time series well production history

Documents that cite this document
Select link to view other documents in the database that cite this

Your search matched **109** of **939702** documents.

A maximum of **109** results are displayed, **15** to a page, sorted by **Relevance** in **descending** order.
You may refine your search by editing the current search expression or entering a new one the text box.

Then click **Search Again**.

train* and neur* and well and optimiz* and valve

Search Again

Results:
Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD**

1 **A neural network approach to predict existing and in-fill oil well performance**
Linyu Yang; Zhong He; Yen, J.; Ching Wu;
Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Conference on , Volume: 4 , 2000
Page(s): 408 -413 vol.4

[Abstract] [PDF Full-Text (308 KB)] **IEEE CNF**

2 **A large signal elements' simulation of GaAs MESFET using neural network model**
Yifan Gao; Cong Gu;
Computational Electromagnetics and Its Applications, 1999. Proceedings. (ICCEA '99) 1999 International Conference on , 1999
Page(s): 593 -596

[Abstract] [PDF Full-Text (208 KB)] **IEEE CNF**

3 **An artificial neural network-genetic based approach for time series forecasting**
Neves, J.; Cortez, P.;
Neural Networks, 1997. Proceedings., IVth Brazilian Symposium on , 3-5 Dec 1997
Page(s): 9 -13

[Abstract] [PDF Full-Text (360 KB)] **IEEE CNF**